



Science For A Better Life

### MUCK CROPS RESEARCH STATION IPM 2017

#### Forecasting / weather information as of August 18, 2017

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
<b>GROWING DEGREE DAYS</b> (DD base 5)	<b>1465</b>	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	<b>1734</b>	329-395 DD	1399-1711 DD	<b>2<sup>nd</sup> gen. active</b>
<b>ONION MAGGOT</b> (DD base 4)	<b>1599</b>	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>2<sup>nd</sup> gen. active</b>
<b>CARROT WEEVIL</b> (DD base 7)	<b>1207</b>	138-156 DD Oviposition	455 DD 90% oviposition	
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>973</b>	128 DD	390 DD adult emerge	
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>664</b>	40 DD		
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1332</b>	314 DD 1 <sup>st</sup> Gen	847 DD 2 <sup>nd</sup> Gen	
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1599</b>	200 DD 1 <sup>st</sup> Gen	600 DD 2 <sup>nd</sup> Gen	

#### Disease Forecasting

**BOTCAST** – Cumulative disease severity index (CDSI) for botrytis currently at 84, risk is moderate.

**DOWNCAST** – No combined sporulation infection periods, although sporulation likely occurred on three of the past four days with leaf dryness limiting infection. Since downy mildew is present, risk is still moderate as leaf wetness is variable depending on the specific field.

**BREMCAS**T – There has been no sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low.

**TOMCAST** – CDSI of 104.

#### Soil Temperatures:

Aug 17: 5 cm – 23.4

10 cm – 22.6

20 cm – 21.8

DATE (August, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
15	27.6	12.3	0.2
16	26.7	15.7	0.0
17	26.0	12.8	7.0

